

FIGURE 1

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|           |         |  |
|-----------|---------|--|
| HKLK2.LA0 | ( 6998) | AA-CTGAGCCTTGATTATATTG-GAGCTTGGTTGCA-CAG-ACATGTCGA   |
| PSE       | ( 589)  | AATCT-AG-C-TGA-TATAGTGTG-GCTCAAAACCTTCAGCACAAATC-A   |
| HKLK2.LA0 | ( 7044) | CCACCTTCATGGCTGAACCTTAGTACTTAGCCCCCTCCAGACGTCTACAGC  |
| PSE       | ( 553)  | -CACCGTTA-GACT--A-TCTGGT--GT-G--GC-CCAAAC--CTTCAGG   |
| HKLK2.LA0 | ( 7094) | TGATAGGCTGTAACCCAACAT-TGTCACCATAAATCACATTGTTAGACTA   |
| PSE       | ( 590)  | TGA-ACAAAGGGACTCTA-ATCTGGCAGGAT-ATTC-CA----AAG-C-A   |
| HKLK2.LA0 | ( 7143) | TCCAGTG-TGGCC-CAAGCTCCCGTGTAACACAGGCACTCTAAACAG--    |
| PSE       | ( 630)  | T-TAGAGATGACCTCTTGC-AAAG-AAAAAGAAATGGAAAAGAAAAAGAA   |
| HKLK2.LA0 | ( 7189) | -G-CAGGATATTTCAAAAGCTT-AGAGATGACCTCCCAGGAGCTGAATGC   |
| PSE       | ( 677)  | AGAAAGGAAAAAAAAAAAAAAAAAGAGATGACCTCTCAGGCTCTGAGGGG   |
| HKLK2.LA0 | ( 7236) | AAA-GACCTGGCCTCTTTGGGCAAGGAGAATCCTTTACCGCACACTCTCC   |
| PSE       | ( 727)  | AAACG-CCTGAGGTCTTTGAGCAAGGTCAGTCCTCTGTTGCACAGTCTCC   |
| HKLK2.LA0 | ( 7285) | TTACACAGGGTTATTGTGAGGATCAAATGTGGTCA-TGTGTGTGAGACACCA |
| PSE       | ( 776)  | CTCACAGGGTCATTGTGACGATCAAATGTGGTCACGTGTATGAGGCACCA   |
| HKLK2.LA0 | ( 7335) | GCACATGTCTGGCTGTGGAGAGTGAATTCTA--TGTGTGCTAACATTGCT   |
| PSE       | ( 826)  | GCACATGCCTGGCTCTGGGGAGTGCCGTGTAAGTGTATGCTTGCACGTCT   |
| HKLK2.LA0 | ( 7383) | GAGTGCIAAGAAAGTATTAGGCAATGGCT-TTCAGCACTCACAGATGCTCA  |
| PSE       | ( 876)  | GAATGCTTGGGATGIGTCAGGGAT-TATCTTCAGCACCTACAGATGCTCA   |

FIGURE 2A

|           |         |   |
|-----------|---------|---|
| HKLK2.LA0 | ( 7432) | TCTAATCCTCACAAACATGGCTACAGGG-TGGGCACTACTAGCCTCATTTG |
| PSE       | ( 925)  | TCTCATCCTCACAGCATCACTA-TGGGATGGGTATTACTGGCCTCATTTG  |
| HKLK2.LA0 | ( 7481) | ACAGAGGAAAG-GACTGTGGATAAGAAGGGGGTGACCAATAGGTCAGAGT  |
| PSE       | ( 974)  | ATGGA-GAAAGTGGCTGTGGCTCAGAAAGGGGGGACCACTAGACCAGGGA  |
| HKLK2.LA0 | ( 7530) | CATTCTGGATGCAAGGGG-CTCCAGAGGACCATGATTAGACATTGTCTGC  |
| PSE       | ( 1023) | CACTCTGGATGC-TGGGGACTCCAGA-GACCATGACCACTACCAACTGC   |
| HKLK2.LA0 | ( 7579) | AGAGAAATT---ATGG-CTGGATGTCTCTGCCCGGAAAGGG-GGA--T    |
| PSE       | ( 1071) | AGAGAAATTAATTGTGGCCT-GATGTCCCTGTCTCTGGAGAGGGTGGAGGT |
| HKLK2.LA0 | ( 7621) | GCACCTTCCTTGACCCCTATCTCAGATCTTGACTTTGAG-GTTATCTCA   |
| PSE       | ( 1120) | GGACCTTCACTAACCTCCTACCT-TGACCCTCTCTTTTAGGGCTCTTTCT  |
| HKLK2.LA0 | ( 7670) | GACTTCCTCTATGATACCAGGAGCCCATCATAATCTCTCTGTGTCTCTCT  |
| PSE       | ( 1169) | GACCTCCACCATGGTACTAGGA-CCC--CATTGTAT-TCTGT-ACC-CT-  |
| HKLK2.LA0 | ( 7720) | CCCTTCCTCAGTCTTACTG-CCCACTCTTCCCAGCTCCATCTCCAGCTGG  |
| PSE       | ( 1212) | --C-T--TGACTC-TA-TGACCCCACTGCCCA-CTGCA--TCCAGCT--   |
| HKLK2.LA0 | ( 7769) | CCAGGTGTAGCCACAGTACCTAACTCT-TTGCAGAGAACTATAAATGTGT  |
| PSE       | ( 1250) | ---GG-GT--CC-C-CT-CCTATCTCTATT-CCCAG--CTGGCCA-GTGC  |
| HKLK2.LA0 | ( 7818) | A-TCCTACAGGGGAGAAAAAAA-AAAAG-AACTCTGAAAGAGCTGACATT  |
| PSE       | ( 1287) | AGT-CT-CAGTGCCCACTGTTTGTGAGTAACCTCTGAAGGGGCTGACATT  |
| HKLK2.LA0 | ( 7865) | TTACCGACTTGCAAAACACATAAGCTAACCTGCCAG--TTTTGT---GCT  |
| PSE       | ( 1335) | TTACTGACTTGCAAAACAAATAAGCTAACCTTCCAGAGTTTGTGAAATGCT |
| HKLK2.LA0 | ( 7909) | GGTAGAACT-CATGAGACICCTGGGTCAGAGGCAAAAGATTTATTACCC   |
| PSE       | ( 1385) | GGCAG-AGTCCATGAGACICCTGAGTCAGAGGCAAAAGGCTTTTACTGCTC |

FIGURE 2B

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|           |         |   |
|-----------|---------|---|
| HKLK2.LA0 | ( 7958) | ACAGCTAAGGAGGCAGCATGAACTTTGTGTTACATTTGTTCACTTTGCC   |
| PSE       | ( 1434) | ACAGCTTAGCAGACAGCATGAGGTTTCATGTTACATTAGTACACCTTGCC  |
| HKLK2.LA0 | ( 8008) | CCCC--AATTCATAT-GGGATGATCAGAGCAGTTC-AGGTGGATG--G-A  |
| PSE       | ( 1484) | CCCCCAAATCTTGTAGGG-TGACCAGAGCAG-TCTAGGTGGATGCTGTG   |
| HKLK2.LA0 | ( 8051) | CA-CAGGGGTTTGTGGCAAAGGTGAGCAACCTAG-GCTTAGAAATCCTCA  |
| PSE       | ( 1532) | CAGAAGGGGTTTGTGCCACTGGTGAGAAACCT-GAGATTAGGAATCCTCA  |
| HKLK2.LA0 | ( 8099) | ATCTTATAAGAAGGTACT---AGCAAACCTTGTC-CAGTCTTTGTATCTGA |
| PSE       | ( 1581) | ATCTTAT-ACTGGG-ACAACCTGCAAACCTG-CTCAGCCTTTGTCTCTGA  |
| HKLK2.LA0 | ( 8145) | CGGAGATATTATCTTTATAAT-TGGG-TTGAAAGCAGACCTACTCTGGAG  |
| PSE       | ( 1628) | TGAAGATATTATCTTCATGATCTTGGATTGAAAACAGACCTACTCTGGAG  |
| HKLK2.LA0 | ( 8193) | GAACATATTGTATTTATTGTCCT-GAACAGTAAACAAATCTGCTGTAAAA  |
| PSE       | ( 1678) | GAACATATTGTATCGATTGTCCTTG-ACAGTAAACAAATCTGTTGT--AA  |
| HKLK2.LA0 | ( 8242) | TAGACGTAACTTTATTATCTAAGG-CAGTAAGCAAACCTAGATCTGAAG   |
| PSE       | ( 1725) | GAGACATTATCTTTATTATCT-AGGACAGTAAGCAAGCCTGGATCTG-AG  |
| HKLK2.LA0 | ( 8291) | -GCGATACCATCTTGCAAGGCTATCTGCTGTACAAATATGCTTGAAAAGA  |
| PSE       | ( 1773) | AGAGATATCATCTTGCAAGGATGCCTGCTTTACAAACATCCTTGAAACAA  |
| HKLK2.LA0 | ( 8340) | TGGTCCAGAAAAGAAAACGGTATTATTGCCTTTGCTCAGAAGACACACAG  |
| PSE       | ( 1823) | CAATCCAGAAAA-AAAAAGGIGTTGCTGTCTTTGCTCAGAAGACACACAG  |
| HKLK2.LA0 | ( 8390) | AAACATAAGAGAACCATGGAAAATTGTCTCCCAACACTGTTACCCAGAG   |
| PSE       | ( 1872) | ATACGTGACAGAACCATGGAGAATTGCCTCCCAACGCTGTTACGCCAGAG  |
| HKLK2.LA0 | ( 8440) | CCTTCCACTCTTGTCTGAGGACAGTCTTAAACATCCCAICATTAAG-T-GT |
| PSE       | ( 1922) | CCTTCCACCTTGTCTGAGGACAGTCTTAAACGTTCCACCATTAATACT    |

FIGURE 2C

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|           |         |  |
|-----------|---------|--|
| HKLK2.LA0 | ( 8488) | --GTCTACCACATCTGGCTTCACCGTGCCTAACCAAGATTTCTAGGTCCA |
| PSE       | ( 1972) | TCTTCTATCACATCCTGCTTCTTTATGCCTAACCAAG-GTTCTAGGTCCC |
| HKLK2.LA0 | ( 8536) | GTTCCCCACCATGTTTGGCAGTCCCCCACTGCCAACCCCAGAATAAGGGA |
| PSE       | ( 2021) | GAT--CGACTG1GTCTGGCAGCACTCCACTGCCAAACCCAGAATAAGGCA |
| HKLK2.LA0 | ( 8586) | GTGCTCAGAATTCCGA                                   |
| PSE       | ( 2069) | GCGCTCAGGATCCCGA                                   |

FIGURE 2D

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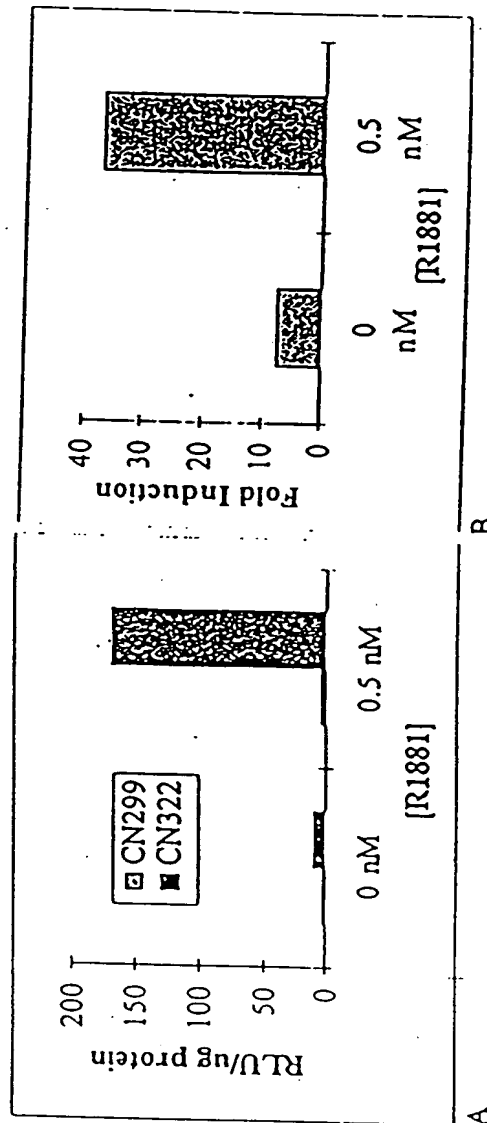


FIGURE 3

FO2201-8225/860

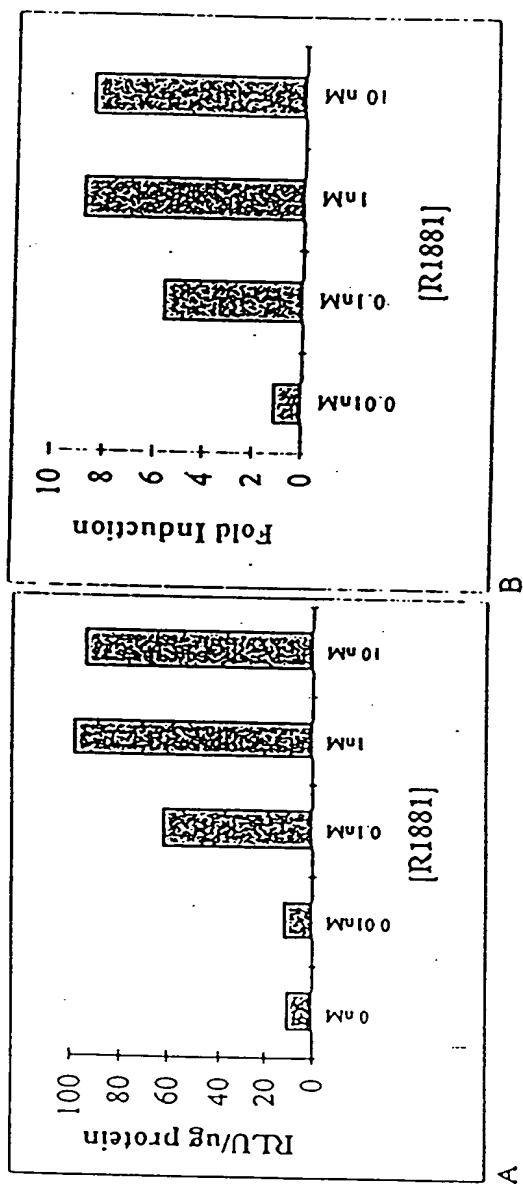


FIGURE 4

FOOT: 82257860

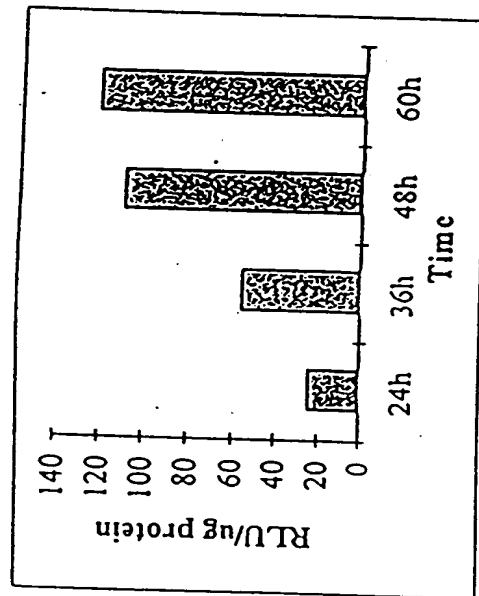


FIGURE 5

FO2220T-82252860



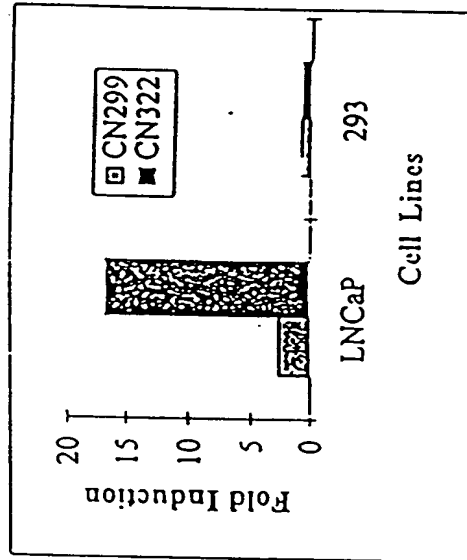


FIGURE 6

FOI201" 82252860

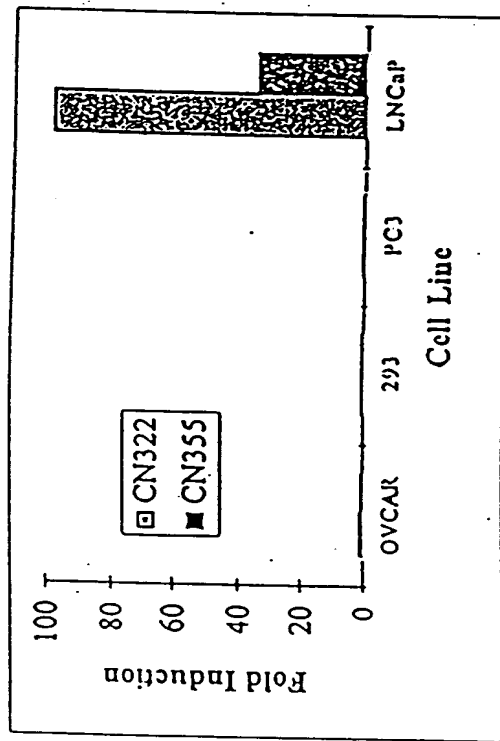


FIGURE 7

102201-82254860

|       |       |       | Fold Induction |
|-------|-------|-------|----------------|
| CN379 | -5155 | -3387 | -324           |
|       |       |       | 81             |
| CN386 |       | -3529 |                |
|       |       |       | 50             |
| CN387 |       | -3643 |                |
|       |       |       | 90             |
| CN388 | -4814 | -3387 |                |
|       |       |       | 35             |
| CN389 |       | -3529 |                |
|       |       |       | 30             |
| CN390 |       | -3643 |                |
|       |       |       | 96             |
| CN391 | -4457 | -3387 |                |
|       |       |       | 61             |
| CN392 |       | -3529 |                |
|       |       |       | 53             |
| CN393 |       | -3643 |                |
|       |       |       | 30             |
| CN394 |       | -3993 | -3387          |
|       |       |       | 55             |
| CN395 |       | -3529 |                |
|       |       |       | 45             |
| CN396 |       | -3643 |                |
|       |       |       | 37             |

FIGURE 8

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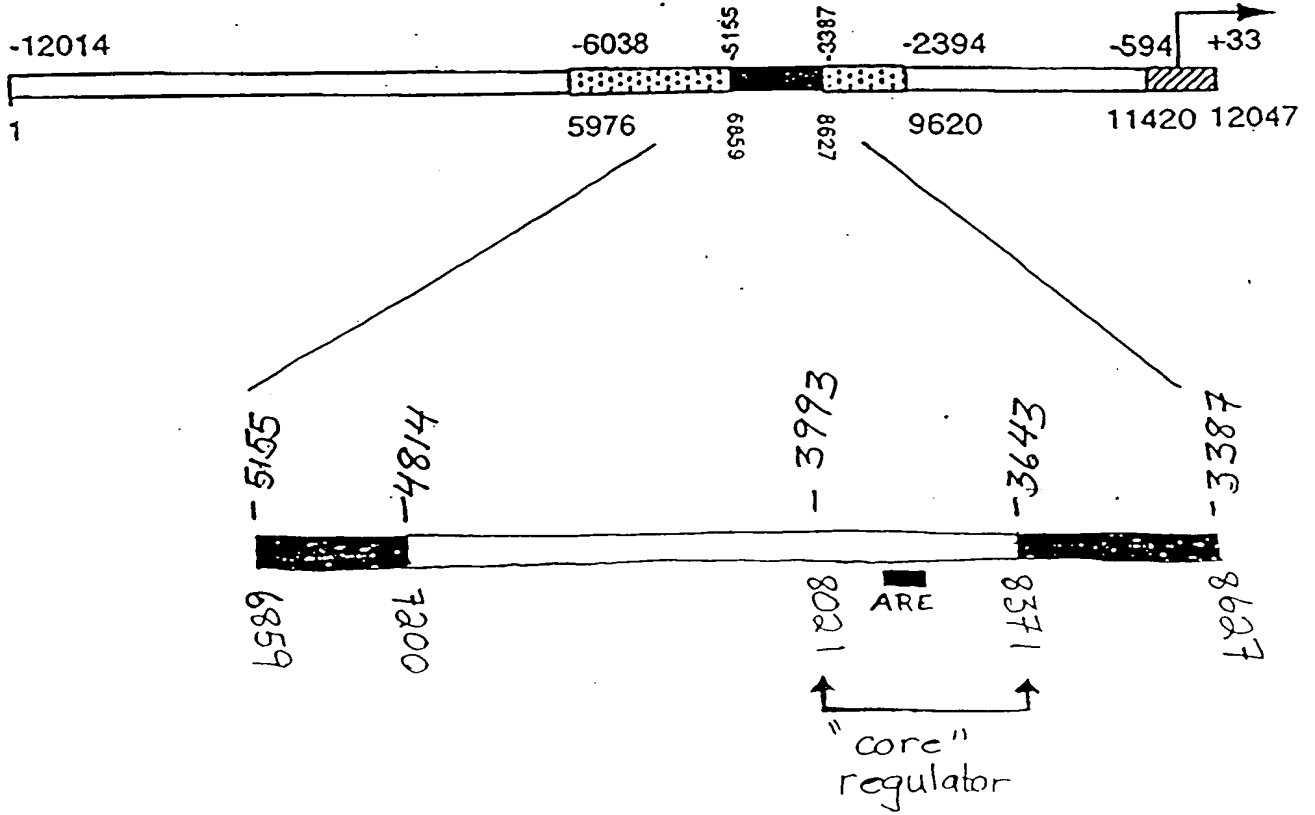
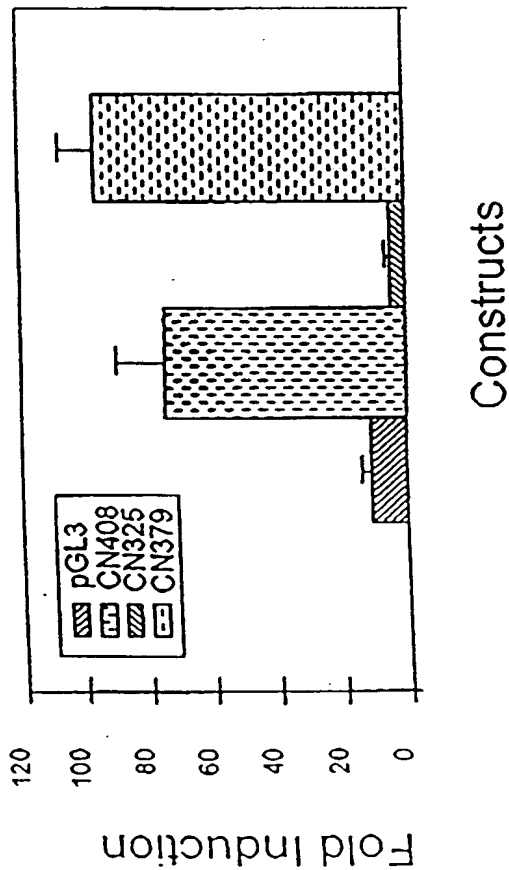


FIGURE 9

A



B

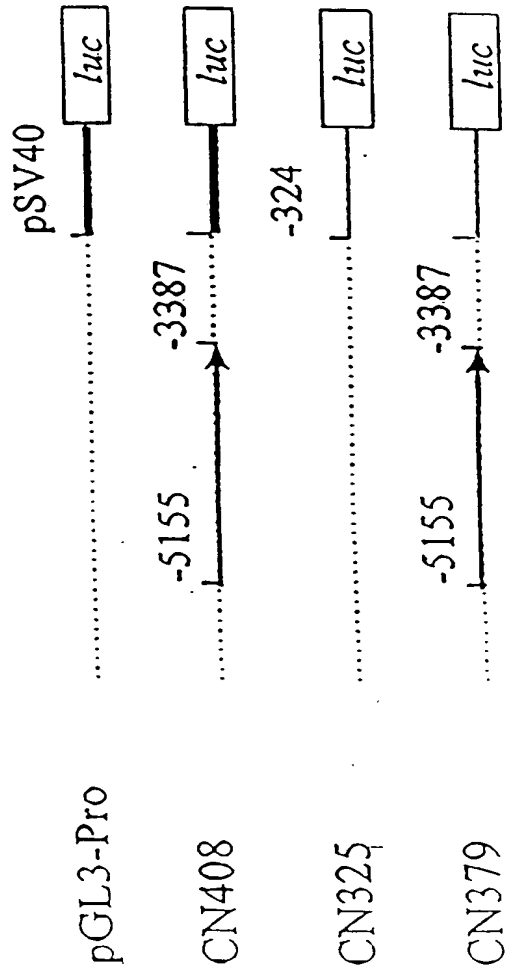


FIGURE 10

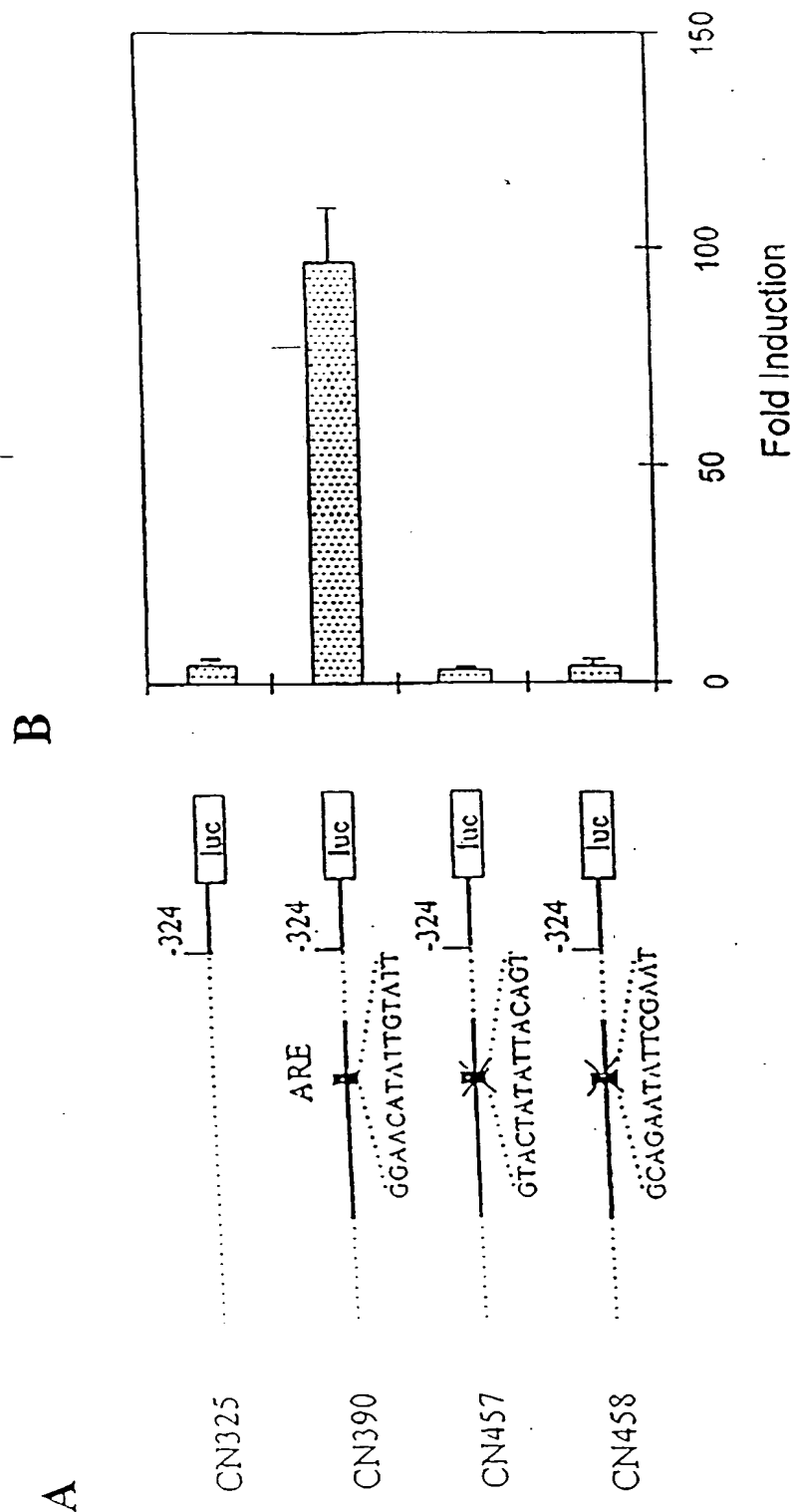


FIGURE 11

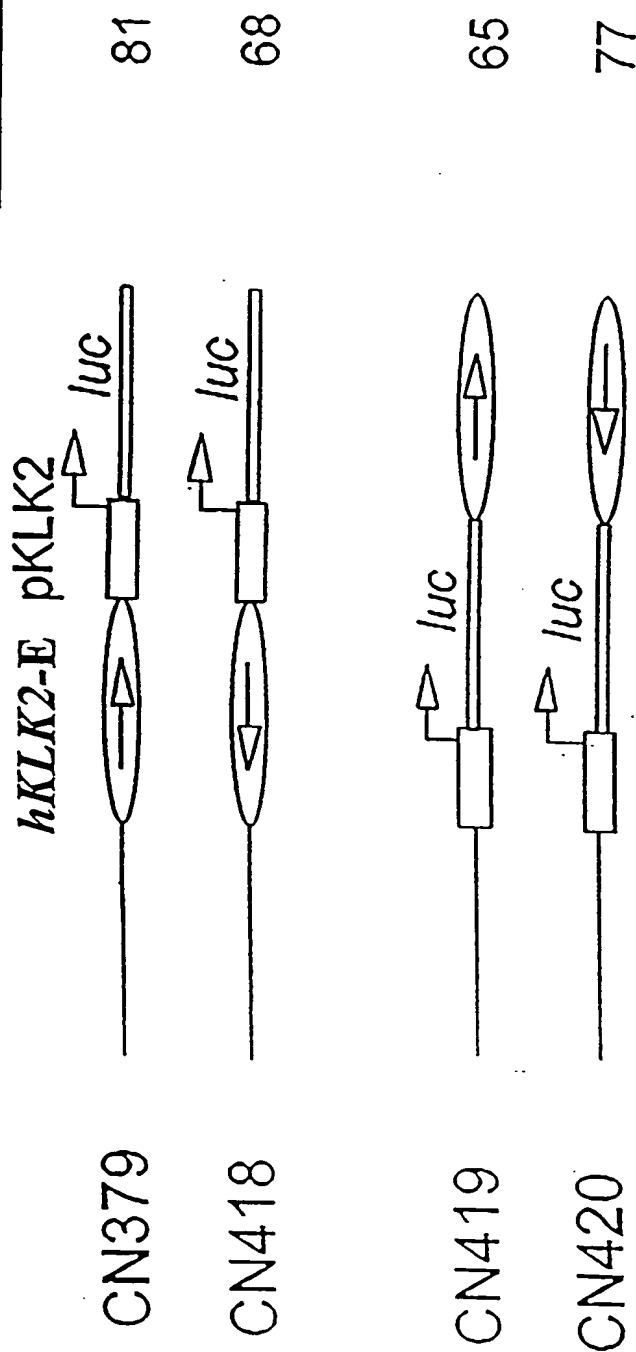
Fold Induction

FIGURE 12

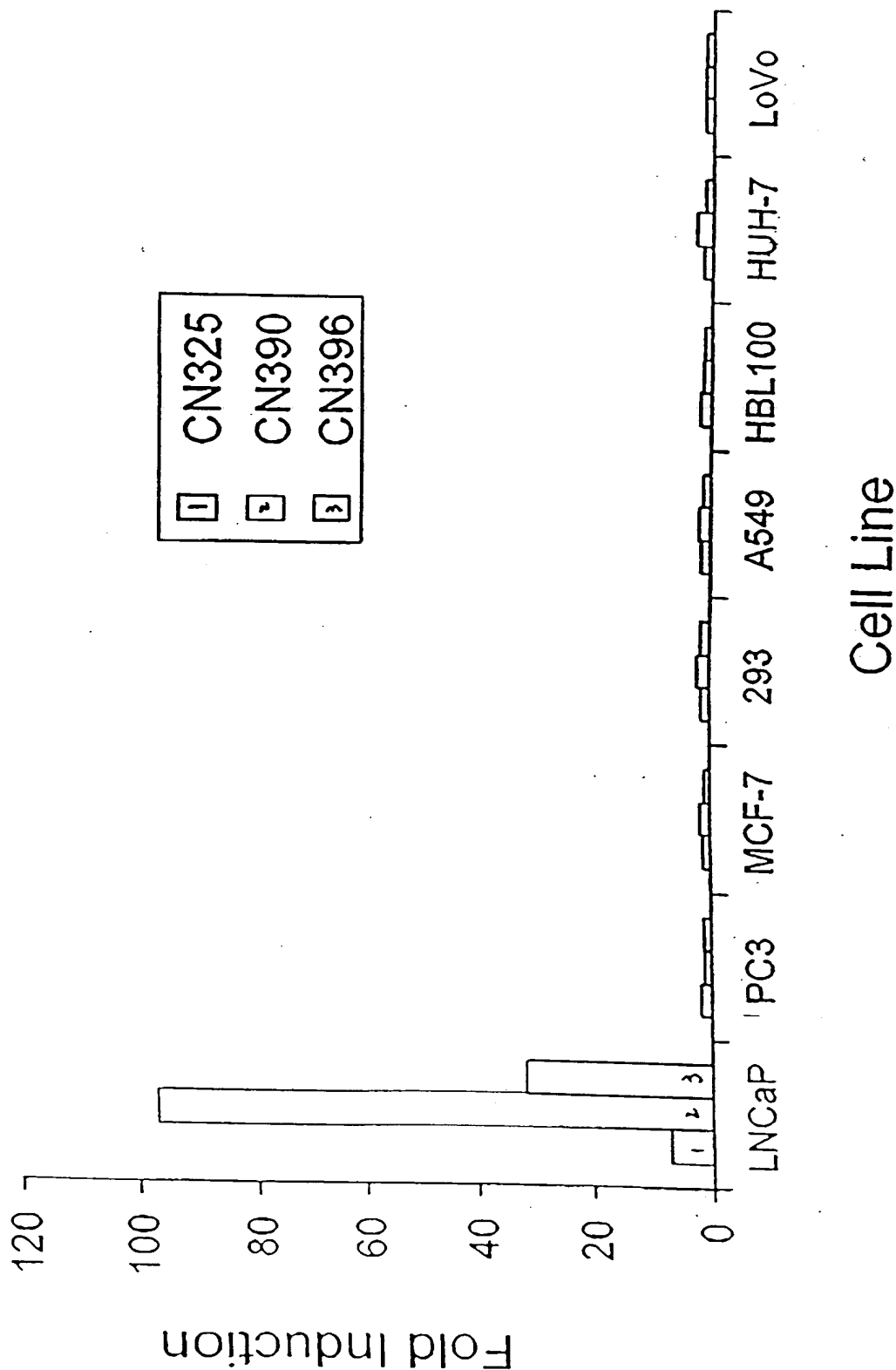


FIGURE 13



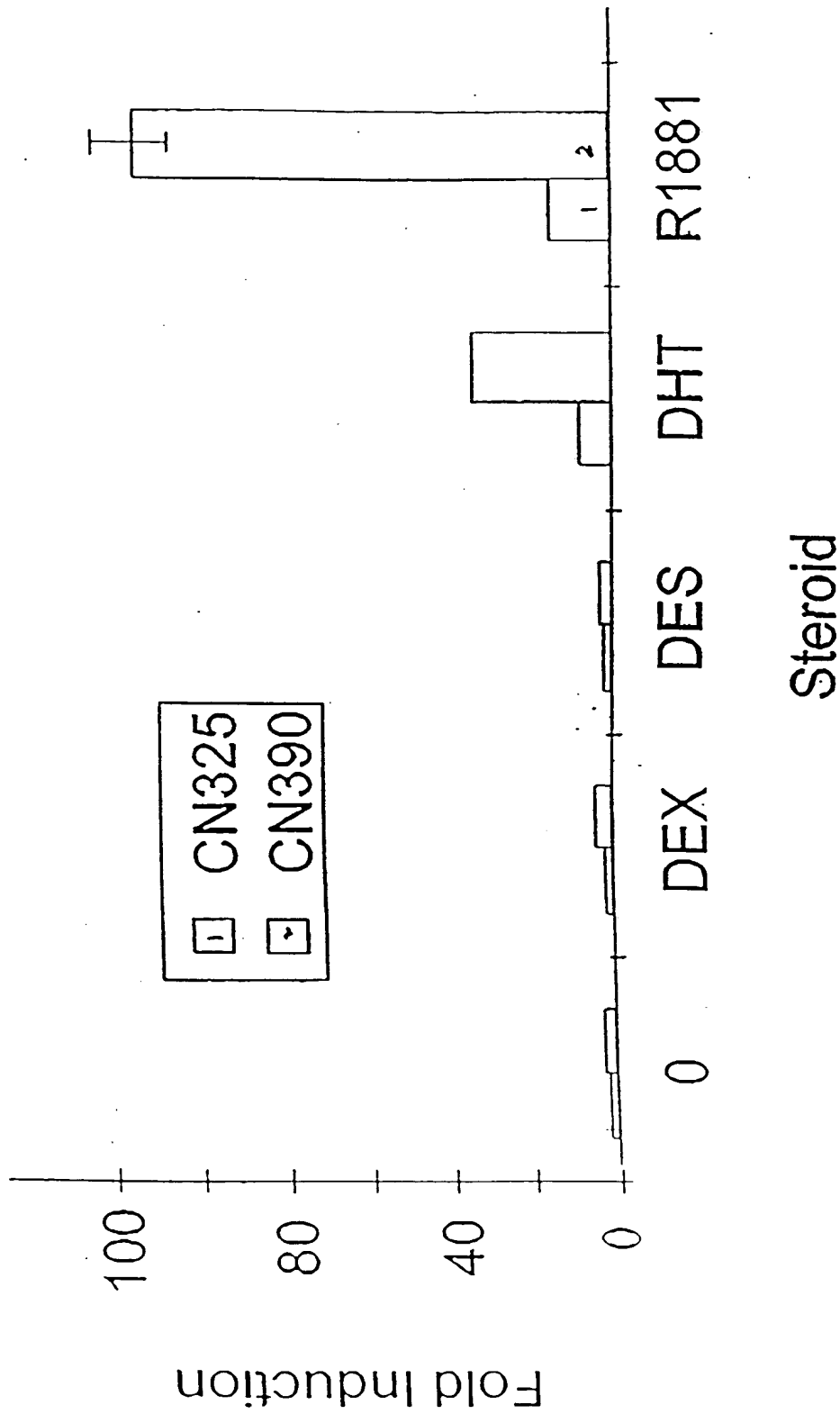


FIGURE 14

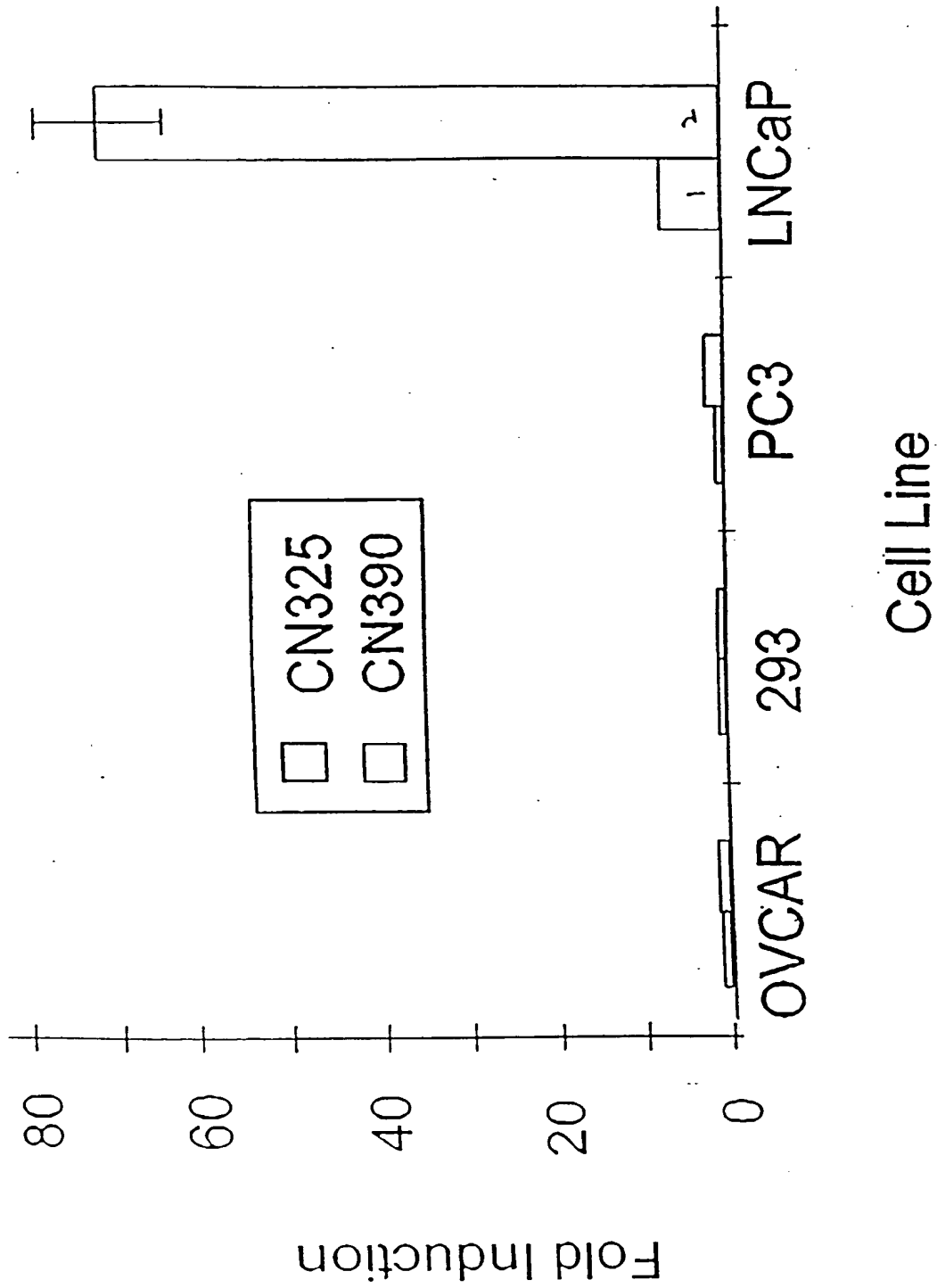


FIGURE 15

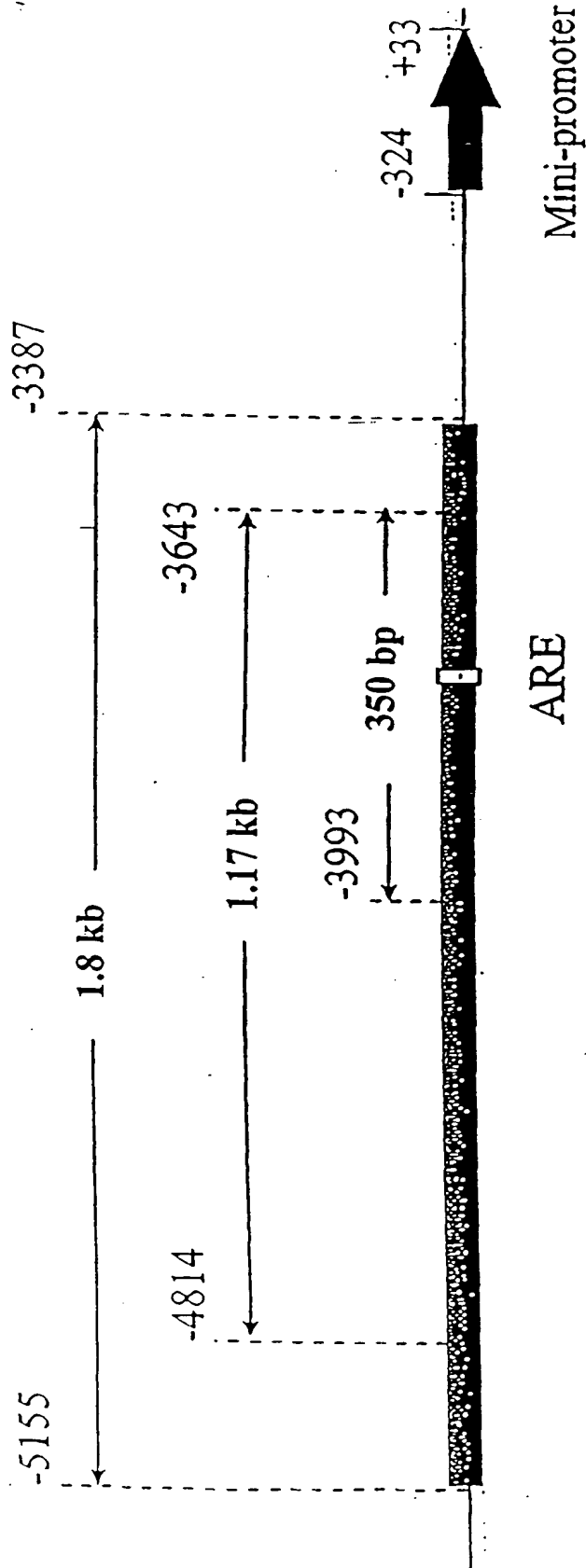


FIGURE 16

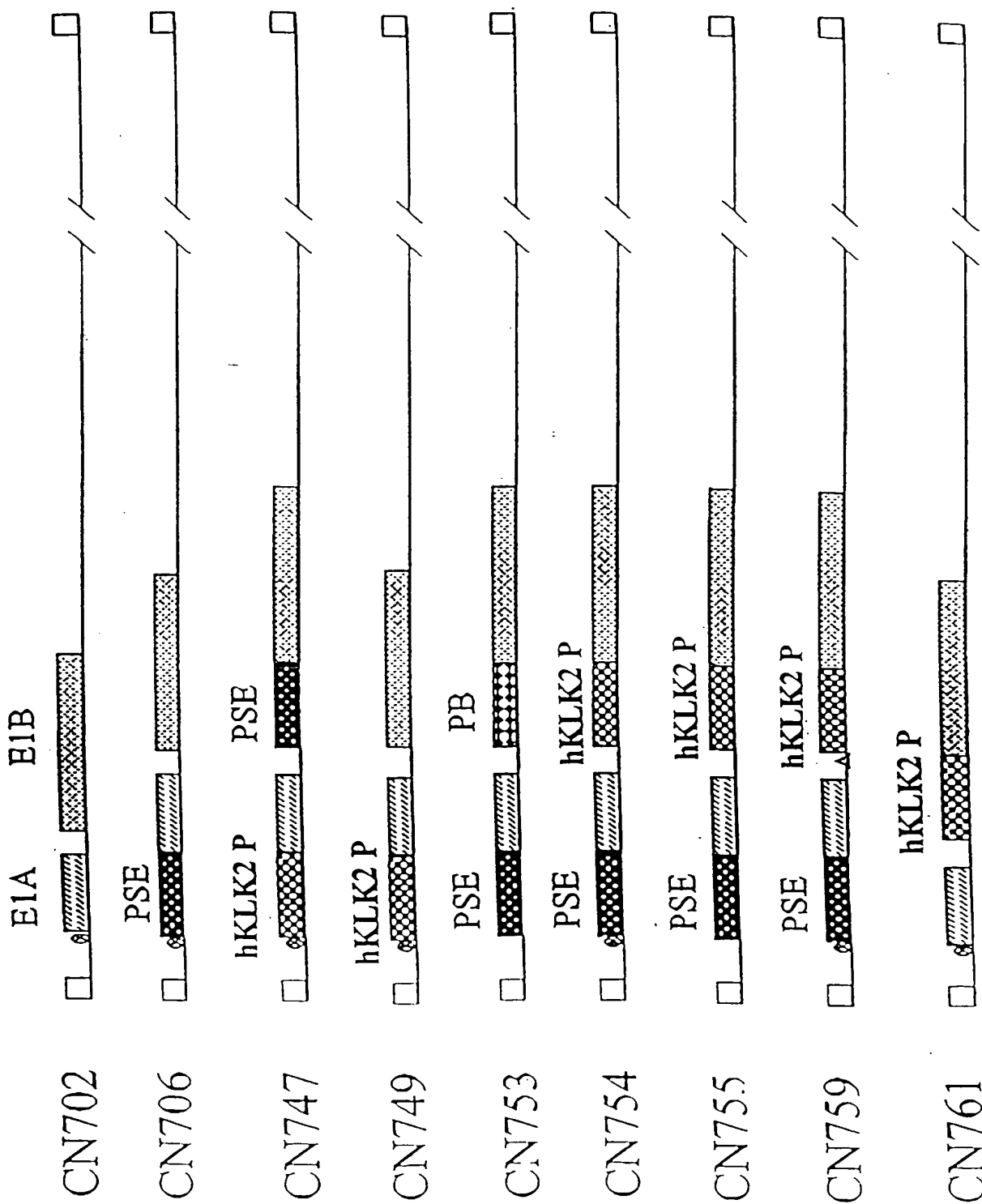
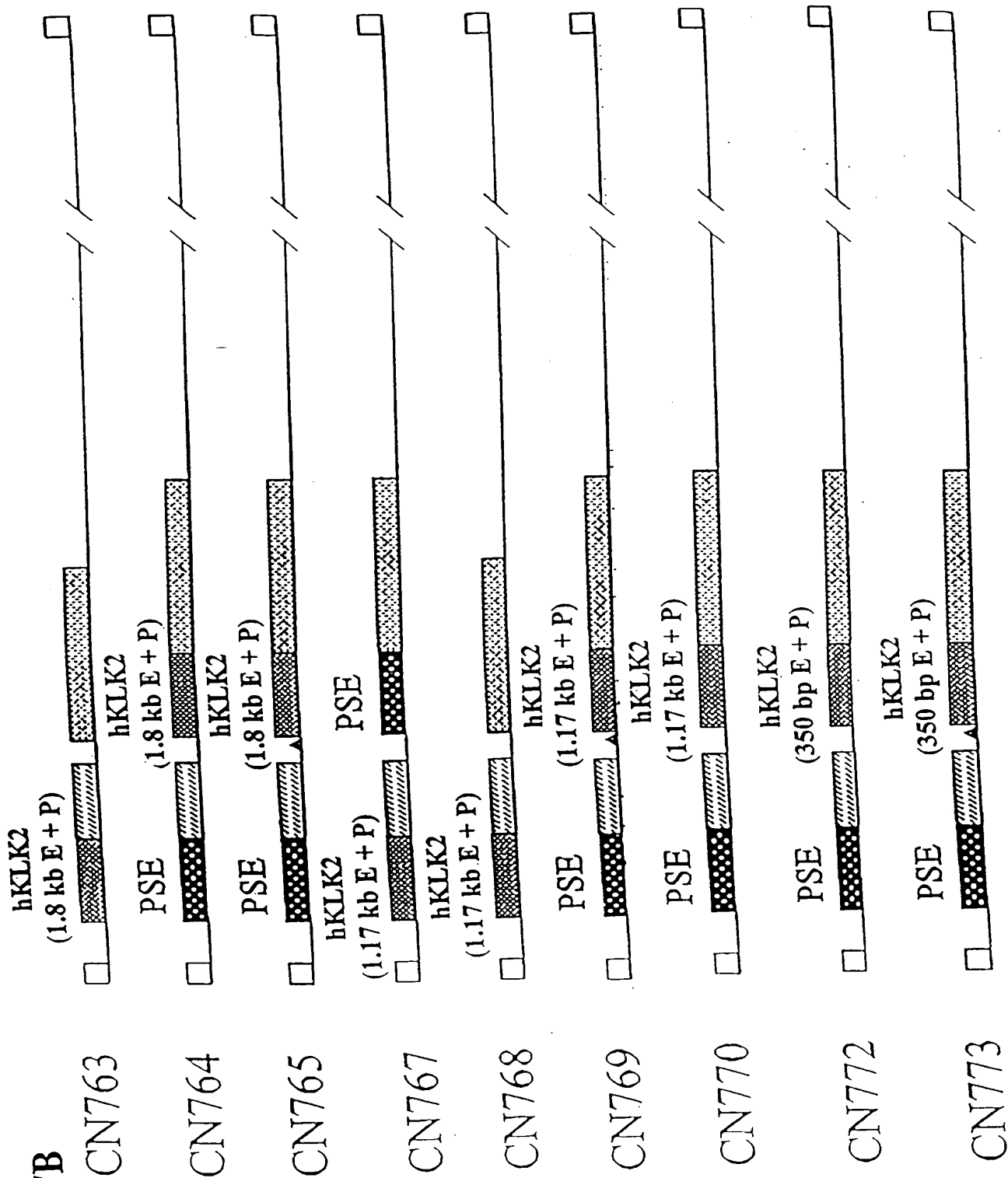


FIGURE 17A

FIGURE 17B



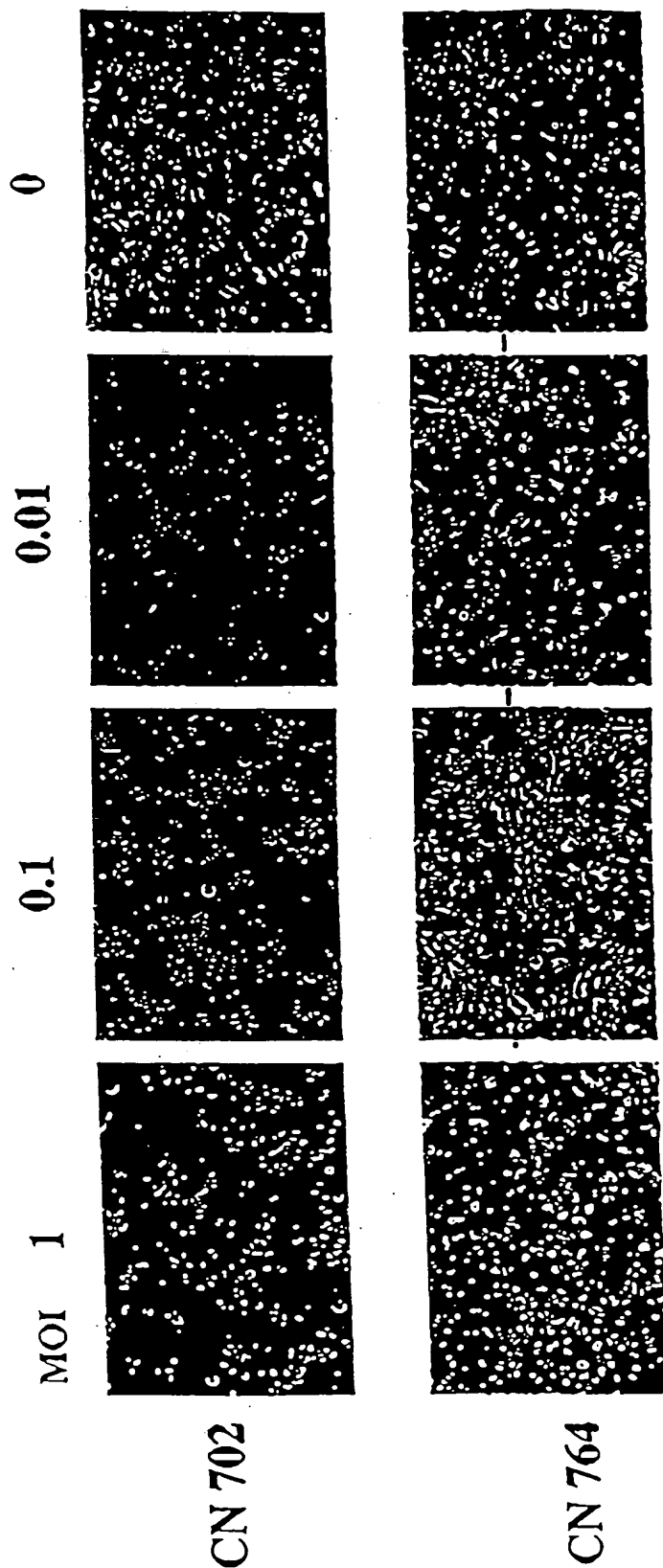


FIGURE 18

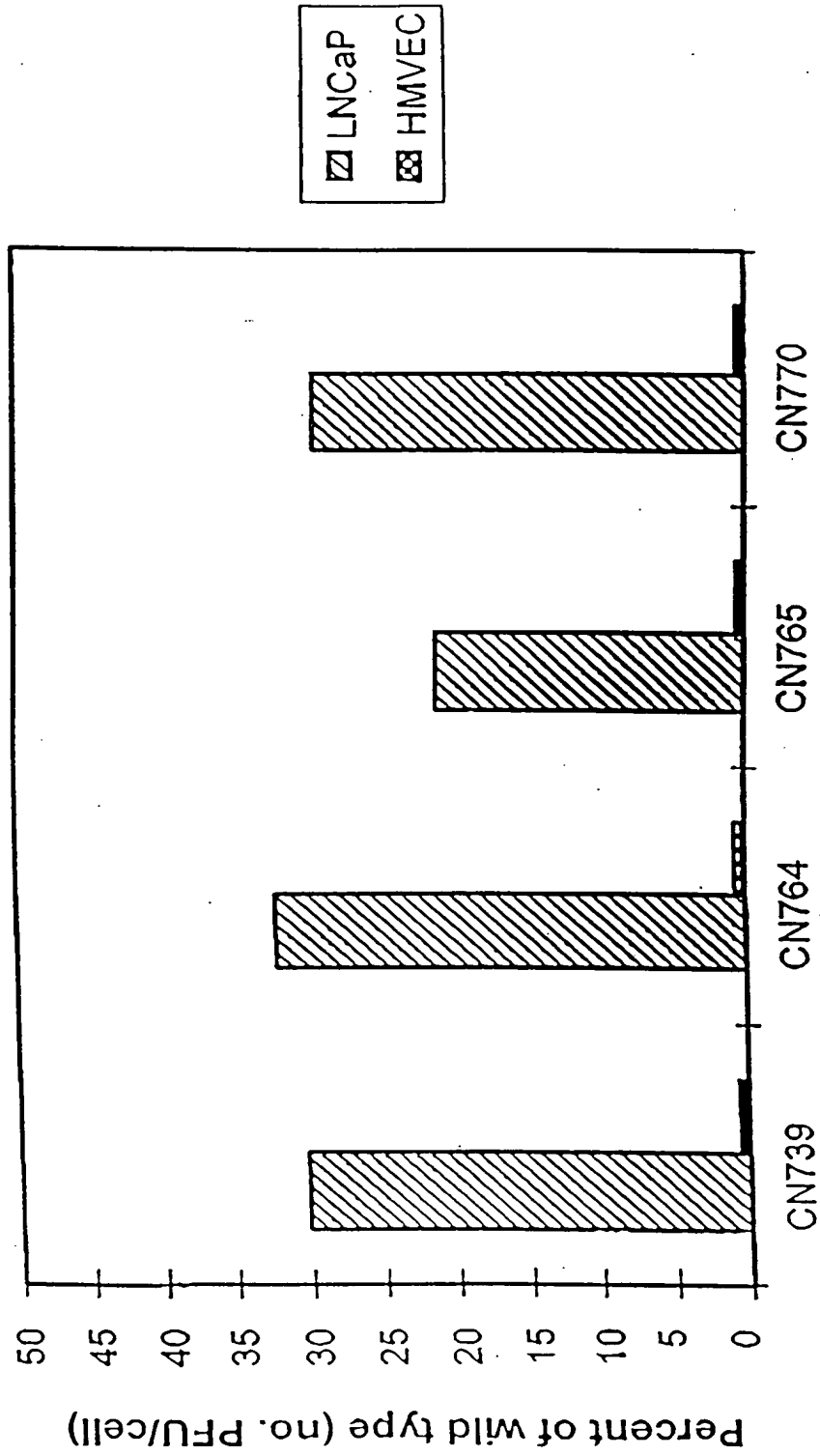


FIGURE 19

FIGURE 19

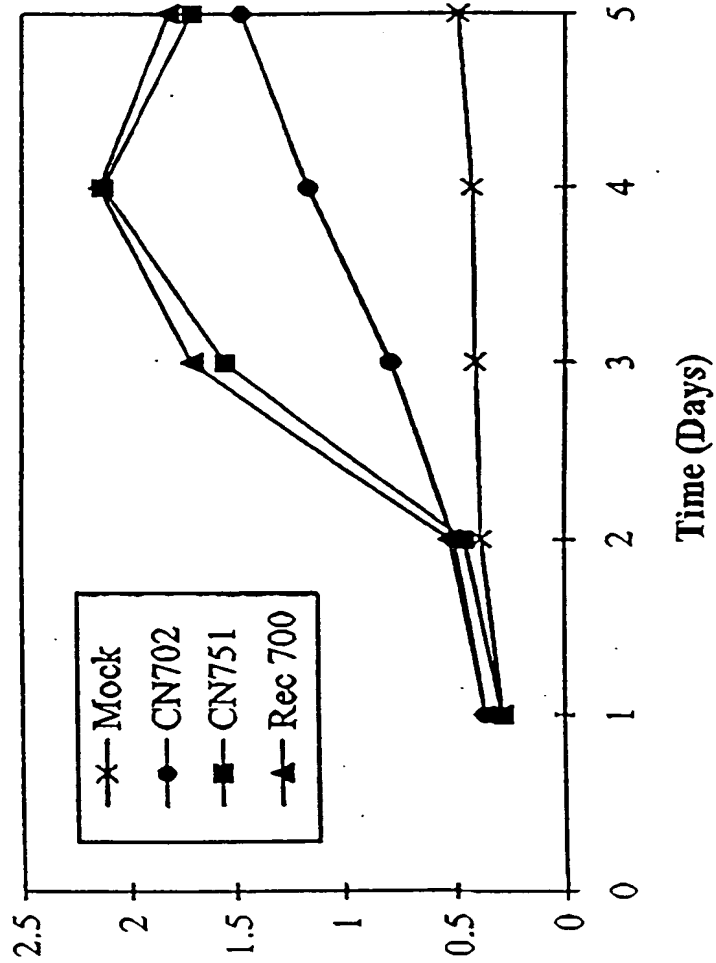


FIGURE 20

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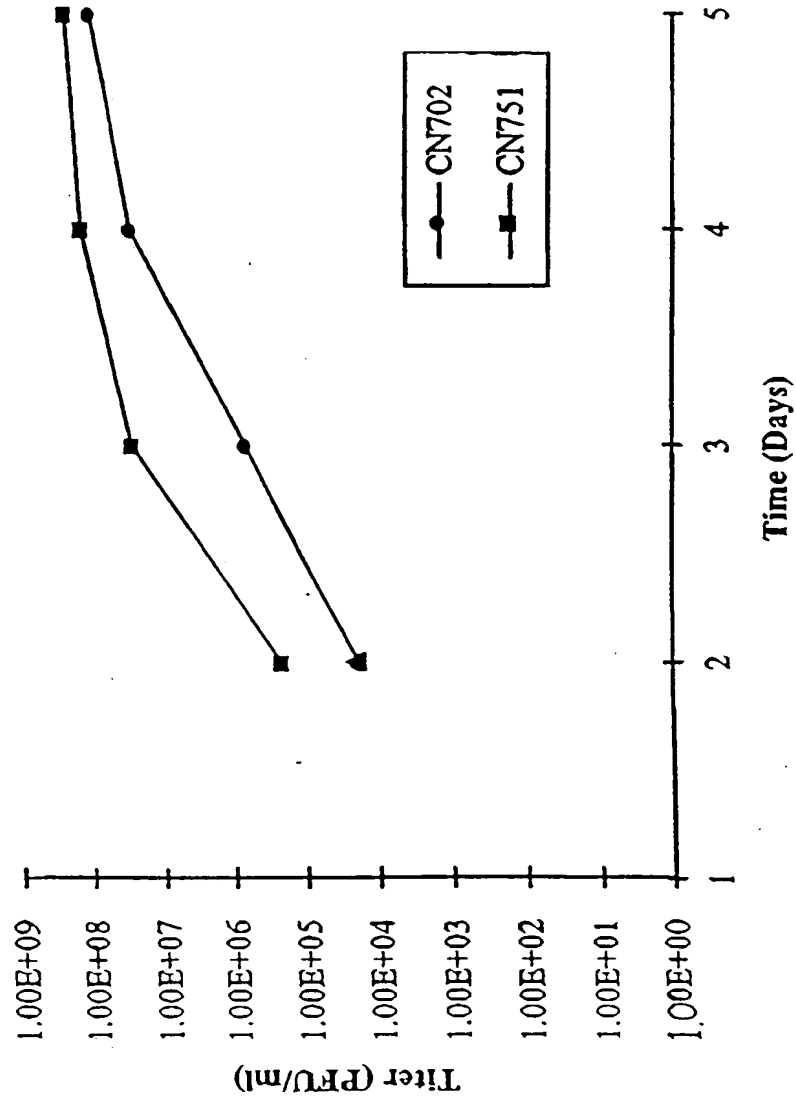


FIGURE 21

FIGURE 21

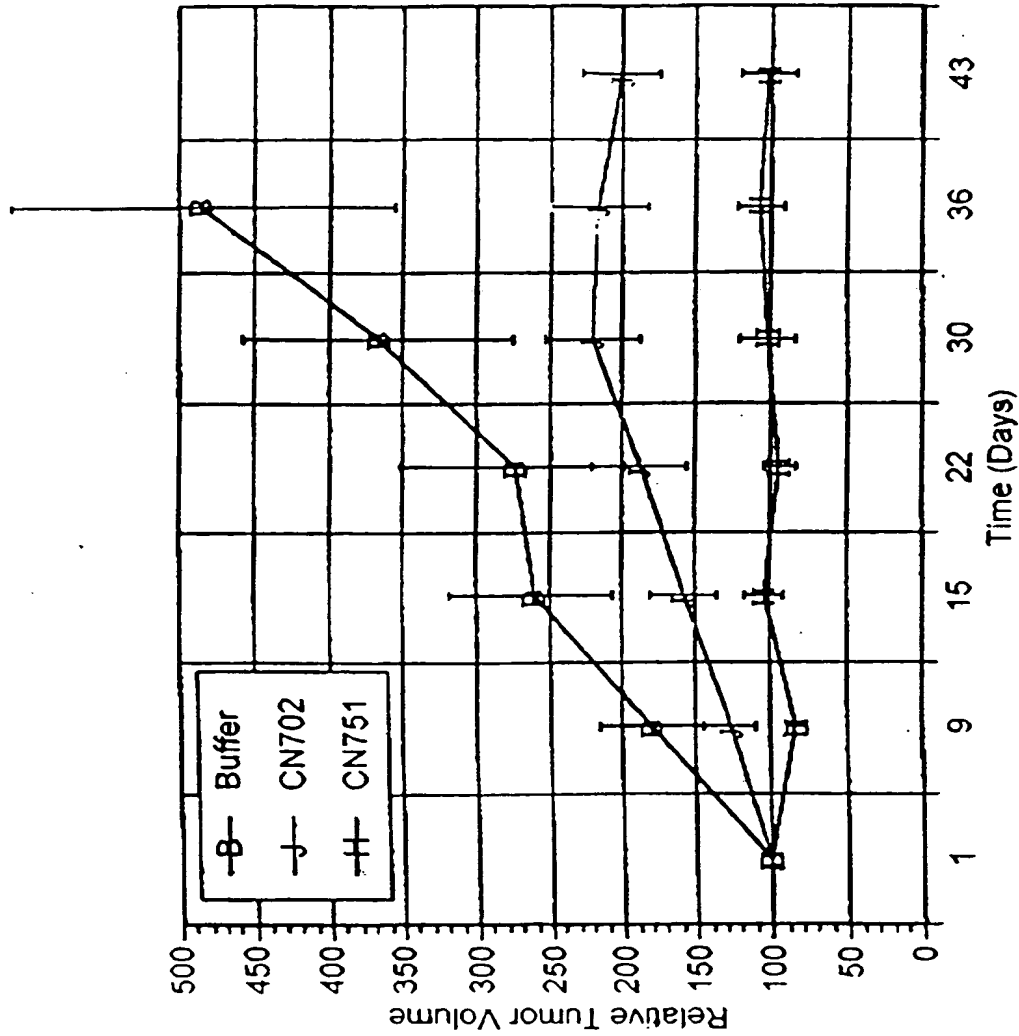


FIGURE 22

FIGURE 22

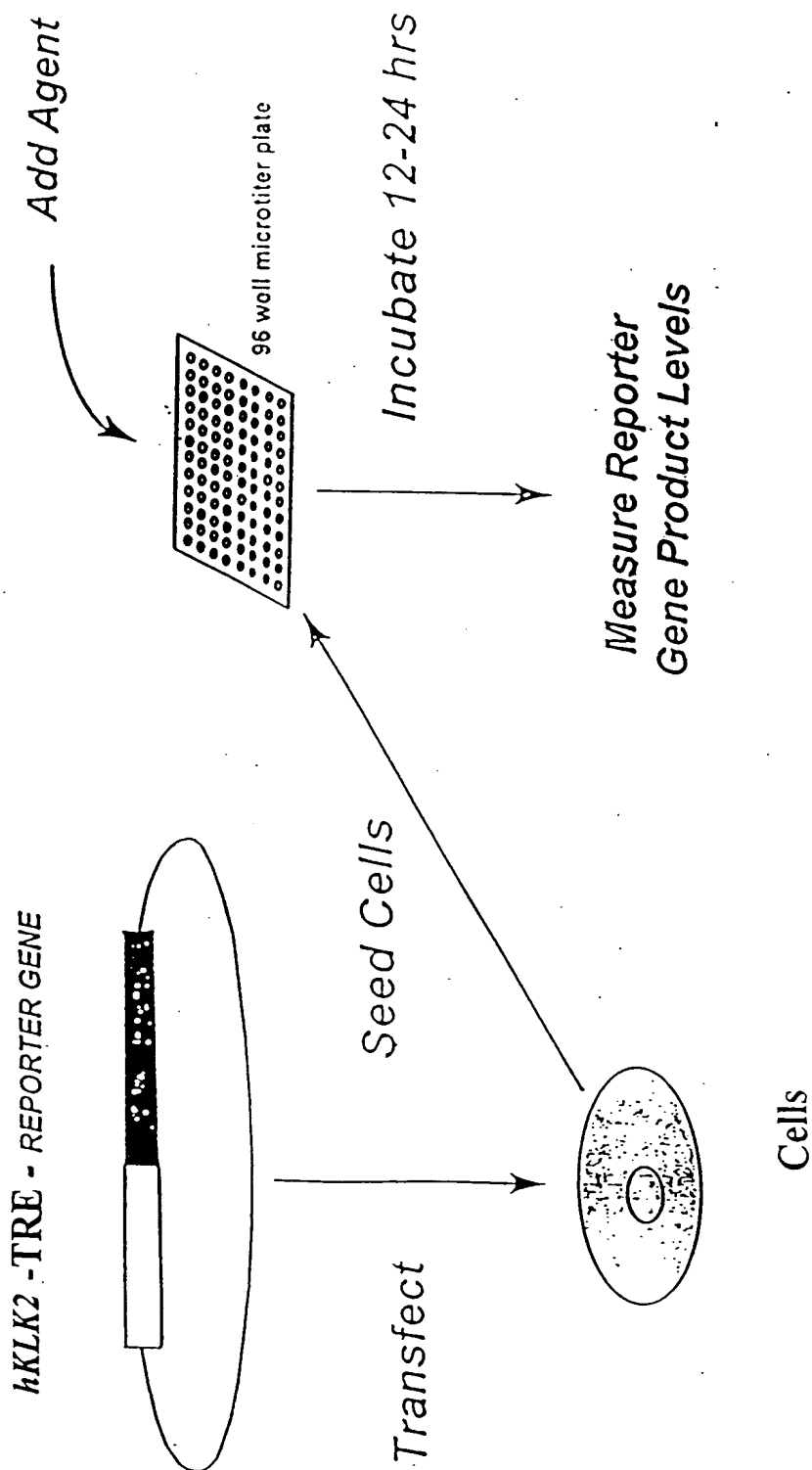


FIGURE 23A

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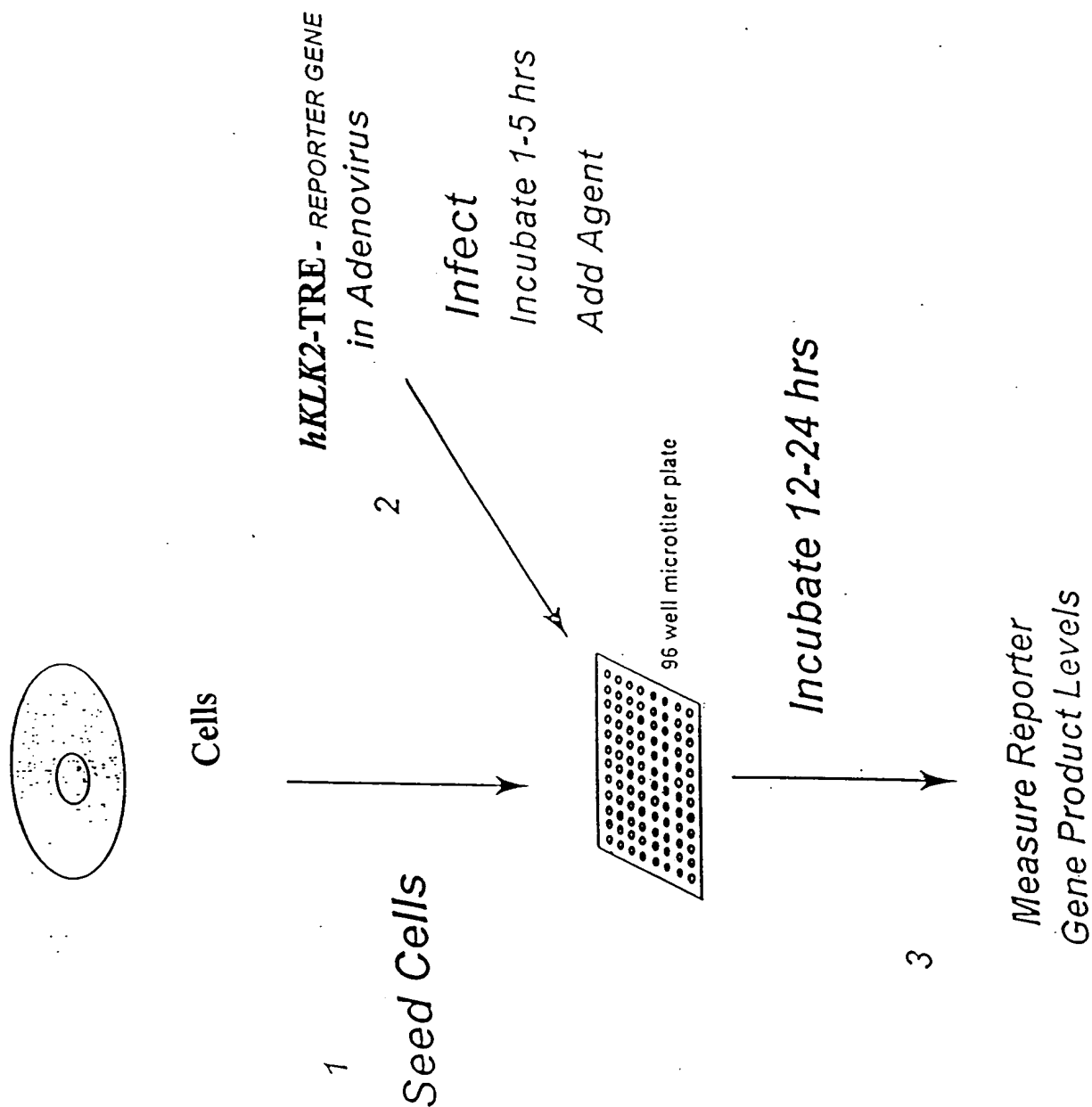


FIGURE 23B

FOOTNOTES 82252860

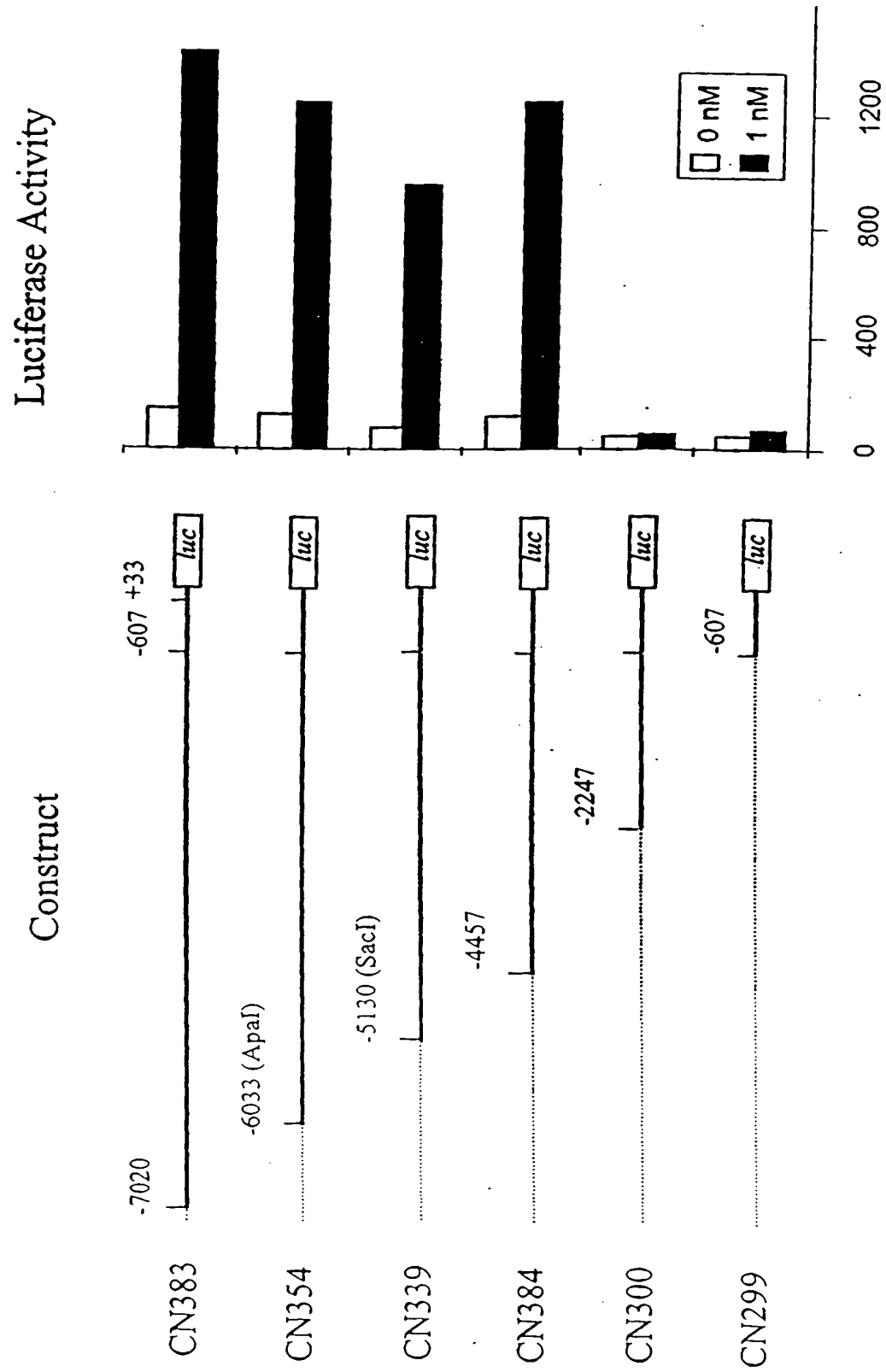
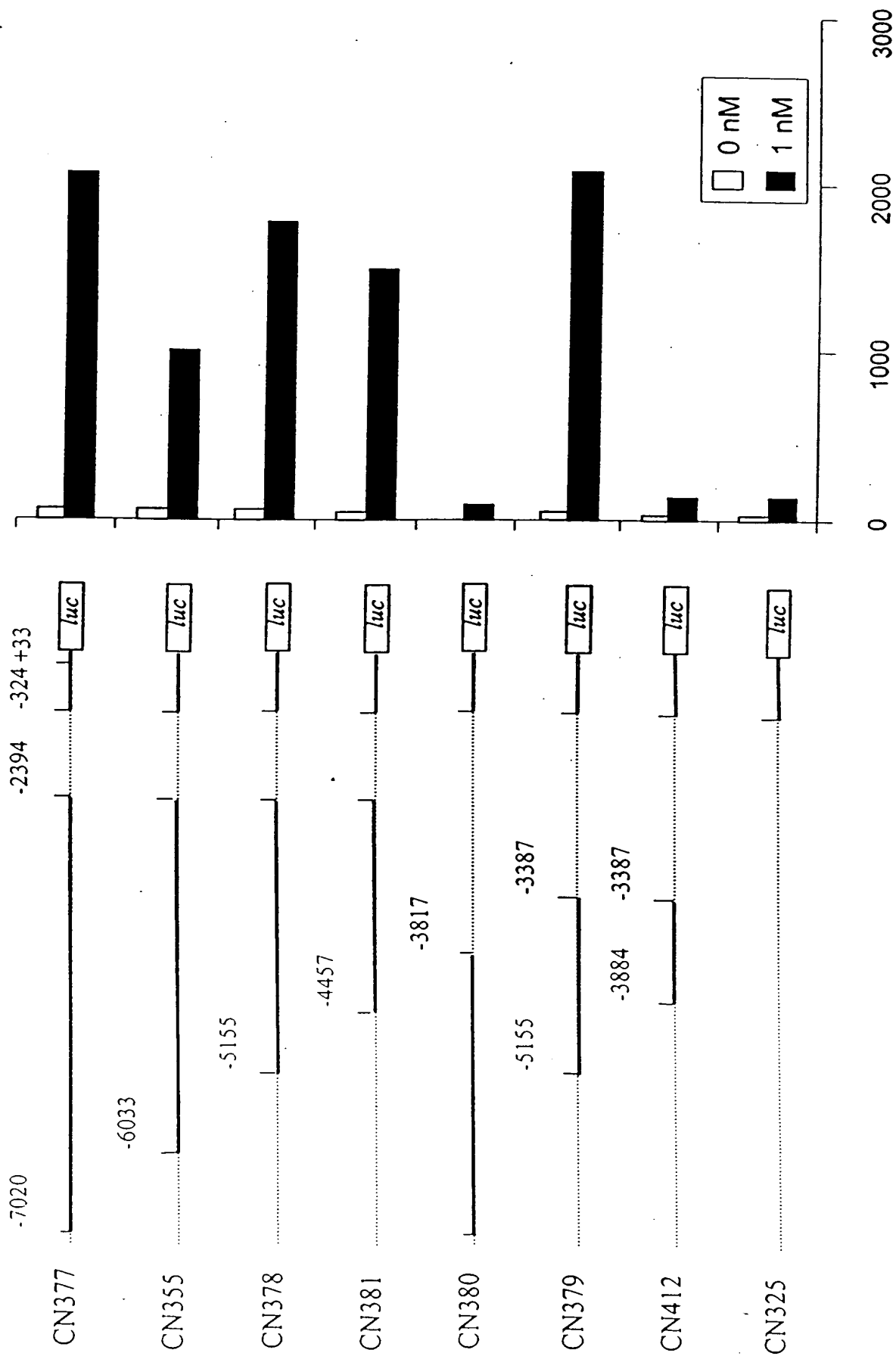


FIGURE 24A

**FIGURE 24B**

Construct

Luciferase Activity



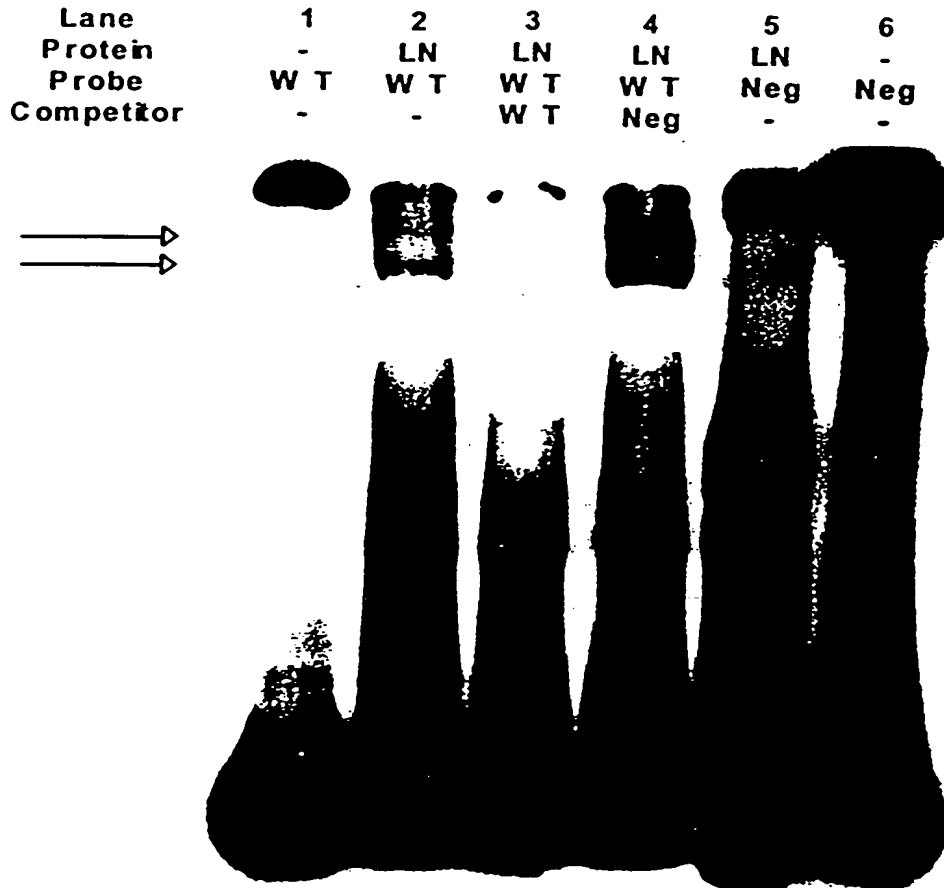


FIGURE 25A

09875228-102201

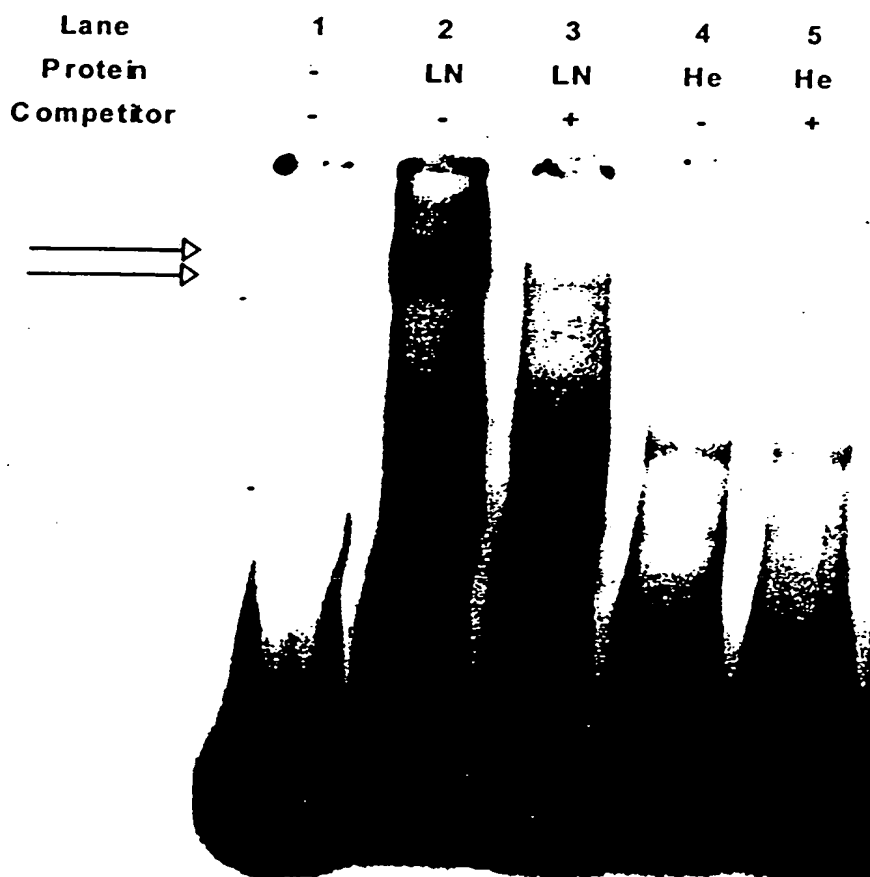


FIGURE 25B

09875228-102201



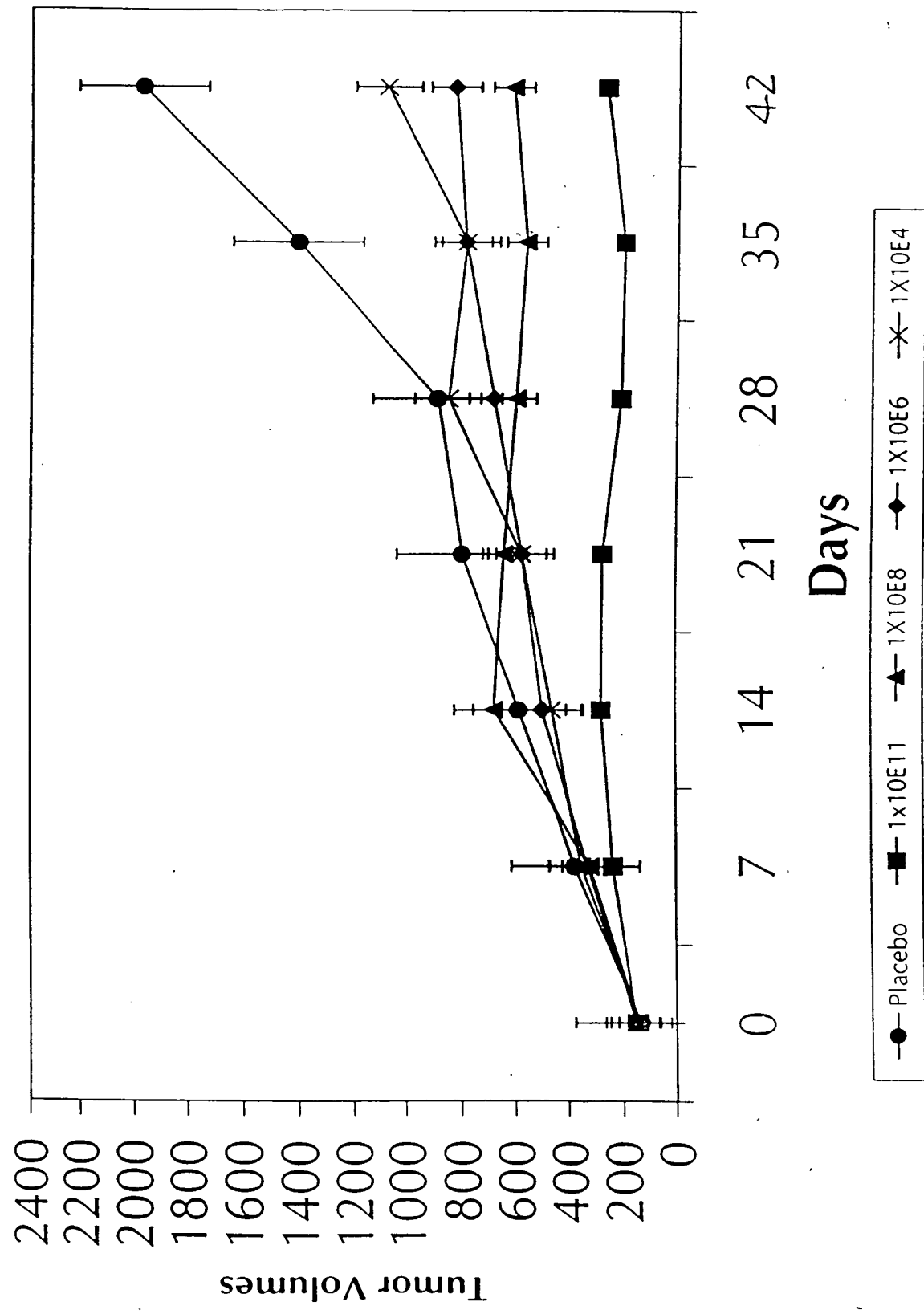


FIGURE 26

FIGURE 26